

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

**ITALIE** 

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BIANCHETTI-BRACCO-MINOJA ST

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of mailing

(day/month/year)

19.07.2004

Applicant's or agent's file reference

International application No.

SCB 790 PCT

IMPORTANT NOTIFICATION

International filing date (day/month/year) PCT/EP 03/05550

27.05.2003

Priority date (day/month/year)

04.06.2002

Applicant

ABIOGEN PHARMA S.P.A. et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



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### **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference SCB 790 PCT			FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No. PCT/EP 03/05550				International filing date (day/month/year) 27.05.2003			ar)	Priority date (day/month/year) 04.06.2002		
A61	K7/42	2		poth national classification	and IPC					
ABIO	OGE!	N PHA 	RMA S.P.A. et al.		····					
1.	This Auth	interna nority a	ational preliminary exa nd is transmitted to the	mination report has be applicant according to	en prepa o Article 3	red   86.	by this Inte	rnational Prelin	ninary Exam	nining
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.									
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).									
	Thes	se anne	exes consist of a total	of 1 sheets.						
3.	This	report	contains indications re	elating to the following	items:	-				
	1	$\boxtimes$	Basis of the opinion							
	II	_	Priority							
	111			opinion with regard to	novelty, i	nver	ntive step a	nd industrial ap	plicability	
	IV □ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicate									
	٧		ritations and explanal	tions supporting such s	viin regari tatement	αιο	noveity, in	ventive step or	industrial a	pplicability;
	VI		Certain documents cit	ted						
	VII   Certain defects in the international application									
	VIII		Certain observations of	on the international app	olication					
Date	of sub	mission	of the demand		Date of	com	pletion of th	s report		
10.1	10.12.2003				19.07.2004					
	Name and mailing address of the international preliminary examining authority:				Authoria	zed (	Officer			neches Petenten
		Euro D-80	pean Patent Office 298 Munich		Houyv	/et.	С			
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/05550

I.	Bas	is	of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		Description, Pages										
		1-8			as originally filed							
		Cla	ims, Numbers									
		1-8	•	filed	d with telefax on 06.05.2004							
	2.	. With regard to the language, all language in which the internation			I the elements marked above were available or furnished to this Authority in the nal application was filed, unless otherwise indicated under this item.							
		These elements were available or furnished to this Authority in the following language: , which is:										
			the language of a ti	ranslation furni	nished for the purposes of the international search (under Ru	ile 23.1(b)).						
			the language of pul	blication of the	e international application (under Rule 48.3(b)).							
			the language of a ti Rule 55.2 and/or 55		nished for the purposes of international preliminary examinat	ion (under						
					r amino acid sequence disclosed in the international applic was carried out on the basis of the sequence listing:	ation, the						
			contained in the inte	ernational app	olication in written form.							
			filed together with t	he internationa	al application in computer readable form.							
			furnished subseque	ently to this Au	uthority in written form.							
			furnished subseque	ently to this Au	uthority in computer readable form.							
	The statement that the subsequently furnished written sequence listing does not go beyond the distinct in the international application as filed has been furnished.											
	ا	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.										
4. The amendments have resulted in the cancellation of:												
			the description,	pages:								
		$\boxtimes$	the claims,	Nos.:	9							
			the drawings,	sheets:								
	5.	⊠	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).									
			(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)									
	see separate sheet											
	6	۸۵۵	ditional observations	if necessary:								

o. Additional observations, if necessary

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#### see separate sheet

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

7-8

No:

Claims

1-6

Inventive step (IS)

Yes: Claims

Claims

1-8

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations

see separate sheet

# INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/05550 EXAMINATION REPORT - SEPARATE SHEET

#### Re Item I: Basis of the report

6. Basis for "as UV filter" inserted in new claim 1 is not found in the description as required by Rule 70.2(c) PCT. Therefore, new claim 1 will only be examined with regard to the "use of dolichol for the preparation of cosmetic and dermatological compositions designed to.... sunlight".

<u>Re Item V</u>: Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: PATENT ABSTRACTS OF JAPAN vol. 011, no. 163 (C-424),1987 & JP 61 293905 A (KANEBO LTD), 1986

D2: PATENT ABSTRACTS OF JAPAN vol. 011, no. 379 (C-463), 1987 & JP 62 148415 A (KANEBO LTD), 1987

D3: US-A-4 812 443 D4: EP-A-0 149 847

D5: EP-A-0 095 133

D6: US-A-5 575 994

D7: US-B1-6 261 575, cited in the application

D8: DINI B ET AL.; EXPERIMENTAL GERONTOLOGY, vol. 37, no. 1, December 2001, pages 99-105, XP001154275, cited in the application

Unless otherwise stated, reference is made to the relevant passages cited in the International Search Report for each of these documents.

#### V.2.1.

a) D1 describes the use of dolichol in a cosmetic preparation for preventing skin ageing. The dolichol concentration ranging from 0.01-3 wt%. Thus, claims 1-3 and 6 are not new in view of D1 (Article 33(2) PCT).

D2 describes a composition containing 0.005-3 or 0.05-1 wt% of dolichol for the promotion of hair growth. The composition being formulated in different dosage form such as tonic, lotion and cream. Thus, claims 1-3 and 6 are not new in view of D2 (Article 33(2) PCT).

The International Preliminary Examination Authority can not take position on the

## INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/05550 EXAMINATION REPORT - SEPARATE SHEET

novelty of claims 4-5 and 7-8 with regard to D1 and D2, since these documents are only abstracts.

D3 describes a dolichol composition used for the treatment of anemia. In D3, the composition can contain 5 wt% of dolichol. Thus, claims 1-3 are not new in view of D3 (Article 33(2) PCT).

D4 describes the use of dolichol to treat hyperuricuria, hyperlipemia, arteriosclerosis, diabetes and hepatic diseases. D4 also states that dolichol is supposed to play an important role in life conservation of organisms and expected to be available as active ingredient for various pharmaceuticals. Thus claims 1-3 are not new in view of D4 (Article 33(2) PCT).

D7 also describes the use of vitamin E as antioxidant, and dolichol as an auxiliary factor of aerobic cellular energy metabolism in a sterol/ubiquinone composition for skin anti-ageing (i.e. for skin being aged by light, or for treatment of damage caused by light-ageing). Thus, claims 1, 4-6 are not new in view of D7 (Article 33(2) PCT).

b) D5 describes a method to prepare polyprenoids having the same configuration as dolichol and being useful as starting materials for the synthesis of the latter. Like D4, D5 states that dolichol is very important for the sustaining of lives in organisms and could be used for the retarding or prevention of ageing.

D6 describes anti-ageing compositions in the form of lotions, creams, milks, ointments, oils, ampoules, masks, gels, pads or sprays, and containing among others: vitamin E and/or F as antioxidants.

D8 sates that dolichol might have a role as scavenger of free radicals in the lipophylic environment inside the membranes, and that it accumulates in tissues during ageing.

c) Thus, only claims 7-8 appear new in view of D1-D7 (Article 33(2) PCT). However, these two claims do not involve an inventive step since the formulation of a pharmaceutical composition belongs to routine optimization tasks for the man skilled in the art. Carbon dioxide is also a common known propellant for sprays (Article 33(3) PCT).

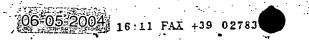
V.2.2.

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The feature of claim 3 is not referred to in the description. Claim 3 is therefore not supported by the description as required by Article 6 PCT. Indeed, the concentration

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range found in claim 3 reads "0.002 and 5% by weight", whereas the description on page 4, line 24 reads : "0.02 and 5% weight".





### DT05 Rec'd PCT/PTO 0 2 DEC 2004

Enclosure 1

### CLAIMS (amended)

- 1. Use of dolichol as UV filter for the preparation of cosmetic and dermatological compositions designed to prevent acute and chronic skin damage caused by exposure to sunlight.
- 2. The use according to claim 1, wherein dolichol concentration is between 0.001 and 7% by weight.
- 3. The use according to claim 2, wherein deliched concentration is between 0.002 and 5% by weight.
- 4. The use according to any one of the preceding claims, wherein deliched is associated with other fat-soluble vitaminic active ingredients possessing an anti-radical action and/or with plant polyprenoids.
  - 5. The use according to claim 4, wherein the fat-soluble vitaminic active ingredients with an anti-radical action are Vitamin E and Vitamin F and/or plant polyprenoids.
  - 6. The use according to any one of claims 1-5, the composition being in the form of creams, lotions, milks, ointments, oils, ampoules, sticks and sprays.
  - 7. The use according to claim 6, the composition being in spray form.
- 20 8. The use according to claim 7, wherein the propellant is carbon dioxide.

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